



# Cons.A.R.

## Presentation and interest for the SST.2011 EU call

*FP7 Maritime Brokerage Event  
London 1-2 September 2010*

# Who's Cons.A.R.?

The Ship-owners Research Consortium CONS.A.R. was born in 1986 as Italian operative arm of the ship-operators in the research activity and of advanced services.

Cons.A.R.'s first and primary mission is to develop research studies and activities to promote methodological and technological development in the shipping sector (operations), and to spread shipping methodologies, techniques and solutions for the optimisation of ship commercial, safety and pollution prevention performances.

Since 1997, Cons.A.R. has also developed training and upgrading courses (safety, new technologies, rules, management, etc.), specifically for the seamen (officers, ratings, etc.) engaged with its associated companies.

# Who's Cons.A.R.?

The principal organization aims are:

- to encourage the direct participation of the shipping companies in the R&D activities;
- to express and satisfy ship operators' needs;
- to disseminate the benefits onto the ship operators (Confitarma and associated members), through the capillary diffusion both of the promoted initiative and of the researches' results.

## Research activities

The synergy produced through the combination of different specialized activities (research, services, training), as well as the competences acquired over the years, have made Cons.A.R. successful and involved in many important European research projects. Some of the most important are: MASIS I; MASIS II; RO-RO Safety Stability; COMARPROP; MERMAID; WETS; HARDER; ROROPROB; EUROMTEC; VRSHIPS-ROPAX 2000; SEAROUTES; SAFECO, EMAS-SHIP, INMARE Coordination Action.

Cons.A.R. is currently involved in the following EU funded projects: FLAGSHIP, RESPECT, AZIPILOT, ARIADNA, UniMET.

# List of Cons.A.R.'s associated members

- Agostino Lauro s.r.l.
- Atlantica S.p.A. di Navigazione
- Carbofin S.p.A.
- Coeclerici S.p.A.
- Costa Crociere S.p.A.
- Società D'Amato di Navigazione S.p.A.
- D'Amico Società di Navigazione S.p.A.
- Deiulemar Compagnia di Navigazione S.p.A.
- F.Ili D'Amico Armatori S.p.A.
- G. & A. Montanari & Co. Società di Armamento S.p.A.
- Grimaldi Holding S.p.A.
- Ignazio Messina & C. S.p.A.
- Navigazione Montanari S.p.A.
- Perseveranza S.p.A. di Navigazione
- Rimorchiatori Riuniti Spezzini - Imprese Marittime e Salvataggi s.r.l.
- ENI S.p.A. Gas & Power sector
- T.A.R.R.O.S. S.p.A.
- V.Ships (Italy) s.r.l.
- Confitarma – Italian Shipowners Association
- Vola Via Mare s.c.a r.l.
- So.Pro.Mar. S.p.A.
- Deiulemar Shipping S.p.A.

# EU 4<sup>th</sup> call – List of Cons.A.R.'s interests

Topic	Items of interest	Role (proposal)
OCEAN.2011-1 “Multi-use offshore platforms”	<ul style="list-style-type: none"> <li>• Whole topic</li> </ul>	WPL/Partner
SST.2011.1.1-1 “Green retrofitting through optimization of hull-propulsion interaction”	<ul style="list-style-type: none"> <li>•Development and testing of optimal cooperation scenarios amongst main actors (shipyards, suppliers, owners, operators and class societies) to ensure optimization of retrofitting processes</li> <li>•Development of solutions and best-practice guidelines for efficient, safe and environmentally friendly retrofit processes, including surface protection, considering the interaction of all actors on site.</li> </ul>	WPL/Partner
SST.2011.1.1-2 “Retrofitting of existing ships with green technologies”	<ul style="list-style-type: none"> <li>•Identification of green technologies and components (excluding hull-propulsion optimization) which can be fitted to existing ships and of optimal retrofitting of new components. Development of accurate assessment methods for determination of the environmental and operational benefits of those technologies</li> <li>•Development of decision support system for emission controls and energy optimization in the operation of ships, including ship and environmental parameters as well as constraints from e.g. slot times in harbours</li> </ul>	Coord.

# EU 4<sup>th</sup> call – List of Cons.A.R.'s interests

Topic	Items of interest	Role (proposal)
SST.2011.1.1-2 “Retrofitting of existing ships with green technologies”	<ul style="list-style-type: none"> <li>• Development of innovative waste management solutions that utilize the waste (dry and wet) as a source of energy and integration with other systems</li> <li>• Development of methods and tools for monitoring and managing the performance of retrofitted technologies throughout the remaining life cycle.</li> </ul>	Coord.
SST.2011.1.1-3 “Towards zero emission marine engines”	<ul style="list-style-type: none"> <li>• Health monitoring</li> </ul>	WPL/Partner
SST.2011.2.1-1 “Efficient interfaces between transport modes”	<ul style="list-style-type: none"> <li>• Cooperative solutions amongst all port actors in achieving optimization of energy use</li> </ul>	Coord.
SST-2011.5.2-1 “Strengthening the European maritime transport sector competitiveness”	<ul style="list-style-type: none"> <li>• The development of tools/services to identify the innovation demand of the industries and enterprises and of an efficient feedback mechanism towards the relevant stakeholders.</li> <li>• The identification of key competences for the waterborne sector and of training needs.</li> <li>• The elaboration of a strategic agenda and roadmap regarding innovation and education to be integrated into the Waterborne Strategic Agenda and roadmap.</li> </ul>	WPL/Partner

# Cons.A.R.'s project proposals

## Topic

**SST.2011.1.1-2 “Retrofitting of existing ships with green technologies”**

## Acronym (temporary)

**R.I.SO.R.S.E.2** (Retro-fitted Integrated Solution for the Reduction of Ships’ Emissions 2)

## Abstract

The aim of the project is the identification of the best green solutions for retrofitting of ships in operation and their implementation and combination. The main scope is to increase efficiency reducing emissions (in particular CO2 and PM).

The development of a waste treatment system to recover energy would also be considered.

Another section of the project will consider the implementation of a decision support system for the monitoring of environmental and energy performances of the ship in order to support the manager decisions and strategies. The final solution/combination will be tested onboard selected ships in order to evaluate the real performances

# Cons.A.R.'s project proposals

## Main work packages

WP0: Coordination and management

WP1: State of art (ship's energy and emissions profile, laws and regulations, etc.)

WP2: Green technologies for retrofit (identification and implementation, design and testing of a combination of these technologies and evaluation of the performance)

WP3: Energy recovery system from waste (description of technology, development of a prototype and subsequent testing onboard)

WP4: Development of a DSS to monitor environmental and energy performance of a ship

WP5: Dissemination and exploitation (web-site, publications, conferences, etc.)

## Current consortium

Cons.A.R.; Shipping company(ies); Gandalf; KTI; Salerno Univ.; Antwerp Univ.; ISQ; EMEC; RINA; SM2

## Partners required

Waste energy recovery systems developer; DSS designer and developer

# Cons.A.R.'s project proposals

<b>Topic</b>	<b>SST.2011.2.1-1 “Efficient interfaces between transport modes”</b>
<b>Acronym (temporary)</b>	<b>N.E.W.Port</b> (New Environmentally Ways for Port)
<b>Abstract/Workpackages</b>	<p>The main objectives of the proposal will be:</p> <ul style="list-style-type: none"><li>- Methodology for assessment and review of the energy profile for port infrastructures and operations;</li><li>- Clean energy applications for reduction of port CO2 footprint;</li><li>- Optimization of port’s energy profile and of energy use (including all port actors);</li><li>- Systems for the energy recovery from waste (from ships and from port activities);</li><li>- New concepts for towing and manoeuvring assistance to the ships;</li><li>- Solutions to minimize energy consumption from ships in port operations, transshipment, waiting time.</li></ul>
<b>Current consortium</b>	Cons.A.R., Ship operators, Towing operator, Port of Naples, Port of Barcelona (TBC)



*CONSorzio Armatori per la Ricerca  
Italian Shipowners Research Consortium*

**Address:** Via Duca Lecco de Guevara 17,  
80059 Torre del Greco (NA)

**E-Mail:** Giuseppe Balzano – [g.balzano@consar.net](mailto:g.balzano@consar.net)  
Rocco Gargiulo – [r.gargiulo@consar.net](mailto:r.gargiulo@consar.net)

**Web Site:** [www.consar.net](http://www.consar.net)

**Phone:** +39 081 8492629

**Fax:** +39 081 8826194



*Thank You for your attention*



**CONS.A.R.**